

IN THE CLAIMS:

Please amend claims 1, 5-7, 10-12 and 16 and add claims 20-22.

1. (Currently Amended) A refrigerator comprising:

a refrigeration cycle including ~~[[which]]~~ a compressor, a condenser, a capillary, an evaporator, ~~[[and]]~~ an accumulator ~~are connected to~~, and ~~in which~~ an inflammable refrigerant is included;

a detector for detecting a ~~leak of the~~ refrigerant leak;

a power supply;

an alarming device for giving an alarming signal ~~warning against the refrigerant leak~~ when the refrigerant leak is detected by the detector; ~~[[and]]~~

a controller for causing the alarming device to stop giving ~~[[an]]~~ the alarming signal after a door of a storage compartment is opened; and

a memory device for memorizing a record regarding the refrigerant leak when the power supply is turned on and holding the record when the power supply is turned off, wherein the alarming device gives an additional alarming signal after a prescribed length of time has passed after the power supply has been turned back on.

2-4. (Canceled)

5. (Currently Amended) A refrigerator comprising~~[[;]]~~:

a refrigerating space and a freezing space which are formed in a way that ~~[[the]]~~ a storage space in ~~[[the]]~~ a main body of the refrigerator is sectioned off by a partition wall;

a refrigeration cycle including ~~[[which]]~~ a compressor, a condenser, capillaries and evaporators for the refrigerating space and the freezing space, and an accumulator which are configured ~~connected to in a way such~~ that the refrigerating space and the freezing space are capable of being controlled independently for refrigeration, and further including ~~in which~~ an inflammable refrigerant ~~is included~~;

a detector for detecting a refrigerant leak in ~~[[each]]~~ at least one of the refrigerating space

[[and]] or the freezing space;

a power supply;

an alarming device for giving an alarming signal ~~warning against the refrigerant leak~~
when the refrigerant leak is detected by the detector; [[and]]

a controller for causing the alarming device to stop giving [[an]] the alarming signal after
a door of a compartment in the at least one of the refrigerating space [[and]] or the freezing
compartment in which the refrigerant leak is detected by the detector is opened; and

a memory device for memorizing a record regarding the refrigerant leak when the power
supply is turned on and holding the record when the power supply is turned off, wherein the
alarming device gives an additional alarming signal after a prescribed length of time has passed
after the power supply has been turned back on.

6. (Currently Amended) The refrigerator according to claim 1, wherein the alarming device
is caused to stop giving [[an]] the alarming signal after the door is left open longer than a
prescribed length of time.

7. (Currently Amended) The refrigerator according to claim 1, wherein, after the door is
opened and the alarming device is caused to stop giving [[an]] the alarming signal, ~~the alarming
device is caused to give an alarming signal again in the case that the door is closed while in the
state that time for which the door has been left open is shorter than a prescribed length of time, or
the alarming device is caused to continue giving no alarming signal in the case that the door is
opened while in the state that time for which the door has been left open is longer than a
prescribed length of time~~ the alarming device is initiated again if the door is closed before a
prescribed door open time has elapsed, or the alarming device remains off if the door remains
open longer than the prescribed door open time.

8-9. (Canceled)

10. (Currently Amended) A refrigerator comprising:

a refrigeration cycle including [[which]] a compressor, a condenser, a capillary, an
evaporator, [[and]] an accumulator ~~are connected to, and in which~~ an inflammable refrigerant is

~~included;~~

a detector for detecting a ~~leak of the~~ refrigerant leak;

a power supply;

an alarming device for giving an alarming signal ~~warning against the refrigerant leak after~~
a prescribed length of time ~~has passed in the case that~~ after the refrigerant leak is detected by the
detector; and

a memory device for memorizing a record regarding the refrigerant leak when the power
supply is turned on and holding the record when the power supply is turned off, wherein the
alarming device gives an additional alarming signal after a prescribed length of time has passed
after the power supply has been turned back on.

11. (Currently Amended) The refrigerator according to Claim 10, wherein a ~~[[d]]~~prescribed
length of time is defined as a time ~~[[which]]~~ it takes for ~~[[the]]~~ a concentration of the refrigerant
~~to come to~~ be lower than the concentration level required for ~~[[of]]~~ inflammation of the
refrigerant while the leaked refrigerant diffuses out of a compartment.

12. (Currently Amended) A refrigerator comprising:

a refrigeration cycle ~~[[which]]~~ including a compressor, a condenser, a capillary, an
evaporator, ~~[[and]]~~ an accumulator ~~are connected to, and in which an inflammable refrigerant is~~
~~included;~~

a detector for detecting a ~~leak of the~~ refrigerant leak;

a power supply;

an alarming device for giving an alarming signal ~~warning against the refrigerant leak~~
when ~~[[a]]~~ the refrigerant leak is no longer detected after the refrigerant diffuses ~~in the case that~~
~~the refrigerant leak is detected by the detector;~~ and

a memory device for memorizing a record regarding the refrigerant leak when the power
supply is turned on and holding the record when the power supply is turned off, wherein the
alarming device gives an additional alarming signal after a prescribed length of time has passed
after the power supply has been turned back on.

13-15. (Canceled)

16. (Currently Amended) ~~The refrigerator according to claim 10, further comprising a memory device for~~ A refrigerator comprising:

a refrigeration cycle including a compressor, a condenser, a capillary, an evaporator, an accumulator, and an inflammable refrigerant;

a detector for detecting a refrigerant leak;

a power supply;

an alarming device for giving an alarming signal warning a prescribed length of time after the refrigerant leak is detected; and

a memory device for memorizing an alarm record when the power supply is turned on and the alarming device is caused to give the [[an]] alarming signal, and holding the alarm record even though the power supply is turned off, wherein the alarming device is caused to start gives[[ing]] an additional alarming signal when the power supply is turned back on.

17-19. (Canceled)

20. (New) A refrigerator comprising:

a refrigeration cycle including a compressor, a condenser, a capillary, an evaporator, an accumulator, and an inflammable refrigerant;

a detector for detecting a refrigerant leak;

a power supply;

an alarming device for giving an alarming signal when the refrigerant leak is detected;

a controller for stopping the alarming signal after a door of a storage compartment is opened; and

a memory device for memorizing an alarm record when the power supply is turned on and the alarming device gives the alarming signal, and holding the alarm record even though the power supply is turned off, wherein the alarming device gives an additional alarming signal when the power supply is turned back on.

21. (New) A refrigerator comprising:

a refrigerating space and a freezing space which are formed in a way that a storage space in a main body of the refrigerator is sectioned off by a partition wall;

a refrigeration cycle including a compressor, a condenser, capillaries and evaporators for the refrigerating space and the freezing space, and an accumulator which are configured such that the refrigerating space and the freezing space are capable of being controlled independently for refrigeration, and further including an inflammable refrigerant;

a detector for detecting a refrigerant leak in at least one of the refrigerating space or the freezing space;

a power supply;

an alarming device for giving an alarming signal when the refrigerant leak is detected;

a controller for causing the alarming device to stop giving the alarming signal after a door of a compartment in the at least one of the refrigerating space or the freezing compartment in which the refrigerant leak is detected by the detector is opened; and

a memory device for memorizing an alarm record when the power supply is turned on and the alarming device gives the alarming signal, and holding the alarm record even though the power supply is turned off, wherein the alarming device gives an additional alarming signal when the power supply is turned back on.

22. (New) A refrigerator comprising:

a refrigeration cycle including a compressor, a condenser, a capillary, an evaporator, an accumulator, and an inflammable refrigerant;

a detector for detecting a refrigerant leak;

a power supply;

an alarming device for giving an alarming signal when the refrigerant leak is no longer detected after the refrigerant diffuses; and

a memory device for memorizing an alarm record when the power supply is turned on and

the alarming device gives the alarming signal, and holding the alarm record even though the power supply is turned off, wherein the alarming device gives an additional alarming signal when the power supply is turned back on.

23. (New) The refrigerator according to claim 5, wherein the alarming device is caused to stop giving the alarming signal after the door is left open longer than a prescribed length of time.

24. (New) The refrigerator according to claim 5, wherein, after the door is opened and the alarming device is caused to stop giving the alarming signal, the alarming device is initiated again if the door is closed before a prescribed door open time has elapsed, or the alarming device remains off if the door remains open longer than the prescribed door open time.